

CLAIMS

What is claimed is:

1. A battery-supplied inverter for a brushless electric motor (2) having a plurality of phase windings (3a, 3b, 3c) being connected in a supply current delta connection via two supply current lines (5) to a supplying battery (6) with a plurality of battery cells (8), wherein at least one second supply current delta connection (4b, 4c) is connected to the battery (6) via supply current lines (5).
2. The inverter according to Claim 1, wherein each supply current delta connection (4a, 4b, 4c) is associated with an inverter section (9a, 9b, 9c) for each phase winding (3a, 3b, 3c) of the brushless motor (2).
3. The inverter of claim 2, the inverter section (9a, 9b, 9c) has power semiconductors for each phase winding (3a, 3b, 3c) of the brushless motor (2).
4. The inverter of claim 3, wherein the inverter is electrically configured for controlled switching of at least three phase windings (3a, 3b, 3c) of the brushless electric motor (2).
5. The inverter of claim 4, further comprising one sensor for each supply current delta connection (4a, 4b, 4c) and wherein the sensor is connected with a control element (14).
6. The inverter of claim 5, wherein the sensor is at least one of a voltage sensor (10) and a current sensor (11) and a temperature sensor (13).

7. The inverter of claim 6, wherein the control element (14) is connected with the inverter (1).
8. The inverter of claim 6, wherein the temperature sensor (13) is arranged in the battery (6) and is connected to the control element (14) via measurement points (12).